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MONTHLY REPORT



25X1

PAR 211

30 Oct 64

SUBJECT: Microdensitometer Study of Effects of Processing

TASK/PROBLEM

1. Collect and study microdensitometric data from mission materials in an attempt to determine the effect of film emulsions, processing, and printing on the characteristics of image edges. Also, attempt to determine true location of image edges for mensuration purposes.

DISCUSSION

2. The image structure characteristics of 4400, 4401, and 4404 films from continuous machine processing are being measured for comparison with the same data collected for special low graininess and high sharpness processing in the sensitometric processor.

3. The IBM 7044 computer program for directly punched acutance data has been established and is operating satisfactorily.

4. A literature search is in progress concerning the problems of mensuration of images near the limit of resolution.

5. An outline description of briefing board subject matter has been prepared. Three briefing boards, charting the flow of evaluation effort, are being prepared.

a. Briefing Board No. 1: Covers evaluation of acutance, granularity and modulation transfer and indicates data reduction by computer.

b. Briefing Board No. 2: Describes efforts to determine resolution and image quality by visual examination methods.

c. Briefing Board No. 3: A summary to show common ground for testing of all values. This chart has been completed and will be scheduled for review with customer.

Declass Review by NGA.

GROUP 1
Excluded from automatic downgrad-
Appligand declassification

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PLANNED ACTIVITIES

6. Continue study of film image structure dependence on processing.
7. Continue the literature search and planning on the mensurational part of this project.
8. Continue preparation of briefing aids.

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